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Product datasheet for MC209020

Sept2 (NM_010891) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sept2 (NM_010891) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sept2
Synonyms:	AW208991; mKIAA0158; Nedd-5; Nedd5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC209020 representing NM_010891 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCTAAGCAACAACCAACTCAGTTTATAAATCCAGAAACTCCTGGCTATGTTGGATTTGCAAATCTTC CCAATCAAGTTCACCGAAAATCAGTGAAGAAGGGGTTCGAGTTCACTCTGATGGTGGTTGGTGAATCTGG TCTAGGAAAATCAACTCTCATAAACAGCTTATTCCTGACTGATCTCTACCCAGAAAGAATTATTCCTGGA GCTGCAGAGAAAATTGAAAGAACTGTCCAGATAGAGGCTTCGACTGTTGAGATTGAAGAGCGGGGTGTGA AGCTGCGGCTTACAGTAGTGGACACTCCCGGCTACGGGGATGCCATCAACTGCAGGGATTGTTTCAAGAC AATTATCTCCTACATTGATGAGCAGTTTGAACGCTACCTACATGATGAGAGTGGACTGAACAGGCGTCAC ATCATTGATAACAGGGTACATTGTTGCTTCTACTTCATTTCACCTTTTGGACATGGACTGAAGCCCTTAG ATGTTGCATTTATGAAAGCGATACACAATAAGGTGAATATTGTGCCTGTCATTGCGAAAGCTGACACTCT CACTCTGAAGGAGCGTGAGCGGCTTAAGAAAAGGATTTTGGATGAAATTGAAGAGCATAGCATTAAAATC TATCACTTACCTGATGCAGAGTCAGATGAAGATGAAGACTTTAAGGAGCAGACTAGACTCCTCAAGGCCA GTATCCCATTCTCTGTGGTTGGCTCCAACCAGTTGATTGAAGCCAAAGGCAAGAAGGTTAGAGGCCGTCT CTACCCATGGGGTGTTGTAGAGGTGGAGAACCCAGAACACAATGACTTTCTGAAGCTGAGAACGATGCTC ATCACCCACATGCAGGACCTACAGGAAGTGACCCAAGACCTTCACTATGAAAACTTCCGTTCTGAGAGGC TGAAGAGAGGCGGCAGGAAAGTAGAGAATGAGGACATGAATAAAGACCAGATCTTGCTTGAAAAGGAGGC TGAGCTCCGCCGCATGCAAGAGATGATTGCAAGAATGCAAGCGCAGATGCAGATGCAGATGCAGGGTGGT GACAGTGACAGCGGGGCTCTCGGGCAGCATGTGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_010891

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Insert Size:	1086 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_010891.2, NP_035021.1
RefSeq Size:	3223 bp
RefSeq ORF:	1086 bp
Locus ID:	18000
UniProt ID:	P42208
Cytogenetics:	1 D
Gene Summary:	Filament-forming cytoskeletal GTPase. Forms a filamentous structure with SEPTIN12, SEPTIN6, SEPTIN2 and probably SEPTIN4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation (By similarity). Required for normal organization of the actin cytoskeleton. Plays a role in the biogenesis of polarized columnar-shaped epithelium by maintaining polyglutamylated microtubules, thus facilitating efficient vesicle transport, and by impeding MAP4 binding to tubulin. Required for the progression through mitosis. Forms a scaffold at the midplane of the mitotic splindle required to maintain CENPE localization at kinetochores and consequently chromosome congression. During anaphase, may be required for chromosome segregation and spindle elongation. Plays a role in ciliogenesis and collective cell movements (By similarity). In cilia, required for the integrity of the diffusion barrier at the base of the primary cilium that prevents diffusion of transmembrane proteins between the cilia and plasma membranes: probably acts by regulating the assembly of the tectonic-like complex (also named B9 complex) by localizing TMEM231 protein.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.